JP 5230715

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Prepn. of high strength, high elastic modulus fibre - comprises mfg. core sheath conjugate fibre comprising aromatic polyester, blended with polyphenylene polysulphide at surface
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Patent Details:

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Abstract (Basic): JP 5230715 A

Prepn. comprises mfg. core sheath conjugate fibre. The core sheath conjugate fibre comprises aromatic polyester which formable anisotropic melt phase (TLC1) of core component and blend of polyphenylene sulphide (PPS) and aromatic polyester which formable anisotropic melt phase (TCL2) of sheath component, where blend ratio of TCL2 in the sheath component is 10-50 wt.%.

As the TCL2 and the PPS, when melt viscosity determined at temp. Ts of TCL2, PPS and share rate of 100 sec-1 make to eta-r, eta-p respectively, polymers of eta-r eta-p-500 (poises) (where Ts = MP + 10 degC in the case of m. pt. (MP) of TCL2 is greater than 290degC, Ts= 300degC in the case of MP is less than 290degC is used, the polymer is discharged at gamma=10power-10power6 (sec-1) of share rate (gamma) when passing through nozzle, and is spun at D=10-100 of spinning draft D.

USE/ADVANTAGE - The high strength, high modulus fibre is useful for general industrial materials, esp. chemical resistant rope, bag filter, FRC, fabric for printed board, screen gauze. Fibre has chemical resistance and wear resistance

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